SEQUENCE LISTING

```
<110> MIRANDA, LESLIE PHILLIP
      KENT, STEPHEN B. H.

<120> WATER-SOLUBLE THIOESTER AND SELENOESTER
  COMPOUNDS AND METHODS FOR MAKING AND USING THE SAME


<130> GRFN-044WO

<140> Unassigned
<141> 2003-12-30

<150> 60/437,285
<151> 2002-12-30

<160> 4

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 56
<212> PRT
<213> Artificial Sequence


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<223> GRFN-1712 peptide

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<222> (1)...(1)
<223> Cys is Acm protected

<221> VARIANT
<222> (56)...(56)
<223> Trp is bound to a thioester moiety

<400> 1
Cys Ser Leu Asn Glu Lys Ile Thr Val Pro Asp Thr Lys Val Asn Phe
1               5                   10                  15
Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
            20                  25                  30
Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
            35                  40                  45
Leu Val Lys Ser Ser Gln Pro Trp
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<220>
<223> GRFN 1712-PLP3 peptide

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<221> VARIANT
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<223> Trp is bound to a thioester-PLP3-L moiety

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Cys Ser Leu Asn Glu Lys Ile Thr Val Pro Asp Thr Lys Val Asn Phe
1               5                   10              15
Tyr Ala Trp Lys Arg Met Glu Val Gly Gln Gln Ala Val Glu Val Trp
            20                  25              30
Gln Gly Leu Ala Leu Leu Ser Glu Ala Val Leu Arg Gly Gln Ala Leu
            35                  40              45
Leu Val Lys Ser Ser Gln Pro Trp
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<220>
<223> GRFN 1852 peptide

<221> VARIANT
<222> (1)...(1)
<223> Cys is Acm protected

<221> VARIANT
<222> (51)...(51)
<223> Leu is bound to a thioester moiety

<400> 3
Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu
1               5                   10              15
Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr
            20                  25              30
Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met
            35                  40                  45
Glu Glu Leu
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<210> 4
<211> 51
<212> PRT
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<220>
<223> GRFN 1852-PLP3 peptide

<221> VARIANT
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<223> Cys is Acm protected

<221> VARIANT
<222> (51)...(51)
<223> Leu is bound to a thioester-PLP3-Leu moiety

<400> 4
Cys Leu Ser Gln Leu His Ser Gly Leu Phe Leu Tyr Gln Gly Leu Leu
1               5                   10              15
Gln Ala Leu Glu Gly Ile Ser Pro Glu Leu Gly Pro Thr Leu Asp Thr
            20                  25              30
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2

Leu Gln Leu Asp Val Ala Asp Phe Ala Thr Thr Ile Trp Gln Gln Met
        35   40   45
Glu Glu Leu
    50

SUBSTITUTE SHEET (RULE 26)